**The AI Summit London**

**Hackathon**

**Problem** **1**: Using the data, compute what fraction of total EU GHG emissions are attributable to agriculture as a whole.

**Approach**: Using Pandas and countrygroups library on given "Agriculture Dataset\_text.csv" , all data corresponding to EU countries is filtered out, emissions are summed and compared with the rest of world emissions.

**Problem 2**: Using the data, compute the fraction of total EU GHG emissions attributable to each agricultural product.

**Approach**: Using the cleansed data above, all data corresponding to each category of agriculture is summed column-wise. A plot is created for visual presentation.

**Problem 3**: Design an ideal diet that meets the nutrition requirements while minimising environmental cost.

**Approach:**

* **Algorithm:**
* **Why:** We chose this linear approach for multiple reasons. Few reasons being less amount of data available, a lot of time needed for data cleaning, time constraint overall and **back propagation** using gradient descent on cost function seems to be the best way to minimise cost (emissions) and maximise value (nutrition).